



Optical Design Accessories



LITHOPATTERNS®

ART GLASS™

SPECIAL EFFECTS™

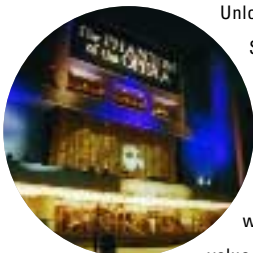
HIGH END SYSTEMS





Optical Design Accessories

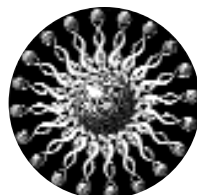
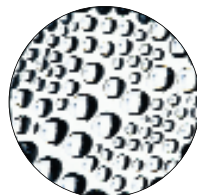
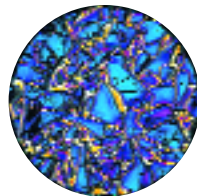
- LITHOPATTERNS®
- SPECIAL EFFECTS™
- ART GLASS™



Unlock the power of your High End Systems automated luminaires with the full range of Optical Design Accessories. Our broad selection of LithoPatterns®, Art Glass,™ and Special Effects™ will dramatically increase the value of your moving light investment.

High End Systems' range of visual media provides the lighting designer with endless creative possibilities. Use Special Effects patterns to create a variety of artistic effects, figured Art Glass patterns to texturize sets and scenery, or LithoPatterns to project high-resolution logos and images. Choose from stock patterns in a wide variety of styles, or have your artwork produced as a custom LithoPattern.

High End Systems pioneered the use of photolithography in the entertainment lighting world, and has remained the leader due to our substantial investment in the Optical Lab. In fact, High End Systems



Fixture

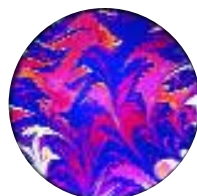


Effect Wheel



Endless Possibilities

remains the only automated lighting manufacturer to produce our own special effects gobos and other color media. The results speak for themselves throughout this brochure.

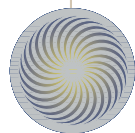




Special events are enhanced with custom lithography.



Your Image is Our Business



If you don't find what you need in this brochure, let us know and we'll make it. Our Optical Design lab professionals can turn your artwork or ideas into stunning LithoPatterns. Custom LithoPatterns are used in every facet of professional light-

ing: from sports teams including the Boston Celtics to corporations like the Coca Cola Company to retail chains such as Blockbuster. Photographs, company or team logos, graphic images . . . there are no limits as to what can be reproduced as a vibrant, long-lasting LithoPattern.



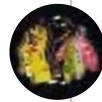
See page 6 for ordering information.



Company or Team Logos

turn
your
logo
into

L I G H T





LithoPatterns®



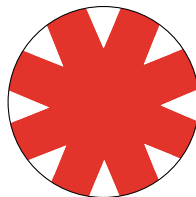
Compared to traditional metal gobo patterns, Lithopatterns enable countless visual possibilities. The intricate detail, brightness and color achievable add a new dimension to lighting.

LithoPatterns can be etched in monochrome, multiple colors, or full four-color process. High End Systems' LithoPatterns feature up to 3300 dpi image resolution.

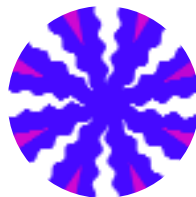
LithoPatterns used in High End's fixtures allow the lighting designer to work with depth in texturing and projection effects by focusing through a particular image. Multiple LithoPattern images can be stacked for moiré and multi-image effects.

Keep up-to-date with the latest LithoPatterns at:

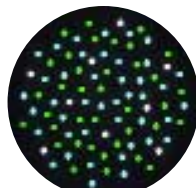
..... www.lithopatterns.highend.com



Red Wedges
142034



Horns
142016



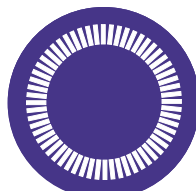
Millennium
143004



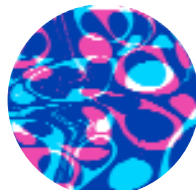
Circus
143002



Sun, red
143001



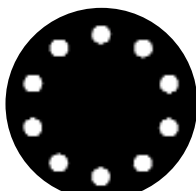
Chicklets
142032



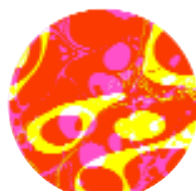
Lava
142031/142030



Belly (2 gobos)
141250 & 142037



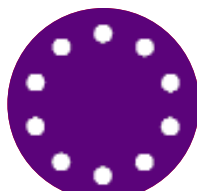
Gatlin Gun, black
available in 8 or 10 bullets



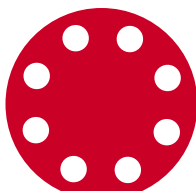
Lumolil, pink/yellow
142024/142025



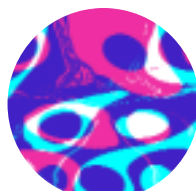
Perfora Green
142038.



Gatlin Gun, indigo
available in 8 or 10 bullets



Gatlin Gun, red
available in 8 or 10 bullets



Lumolil, cyan/magenta
142021/142020



Perfora Red
142036



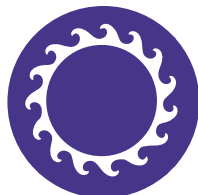
Techno-wedges
142023



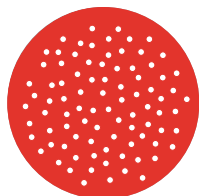
Rip Wheel
141103



Pielight
143003



Wave Tunnel Indigo
142027



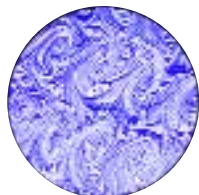
Dots
142014



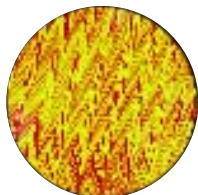
Wings, light
142003



Wings, dark
142005



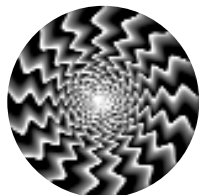
Swirl, blue
142002



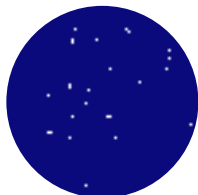
Zigzag, red
142017



Round Triangle, indigo
142026



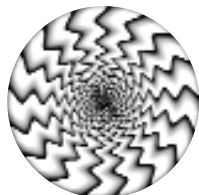
Wavy Black
141030



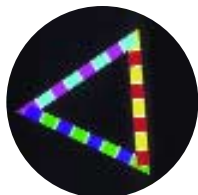
Realistic Stars
142018



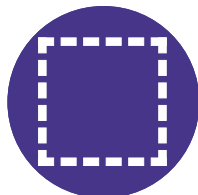
Wheel
142015



Wavy White
141210

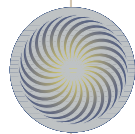


Bermuda
143005



Square Chicklets
142033

LithoPatterns®





LithoPatterns®

LithoPatterns®

- HOW TO ORDER
- ARTWORK SPECIFICATIONS

Our Photolithography designers and staff are here to help you. If you have any questions, please don't hesitate to contact us. Any image or artwork can be used to produce LithoPatterns.

For best results, please see Original Artwork criteria below. Orders for artwork that do not meet our criteria will be subject to certain setup and correction charges, and available resources; or, can be placed as "Use Submitted Art Untouched."

Computer artwork should be compatible with Apple-based graphic software. Files, slides, or high resolution originals may be sent via our FTP Site, normal mail, FedEx or through a similar carrier to High End Systems.

Original Artwork may be furnished in the following formats:



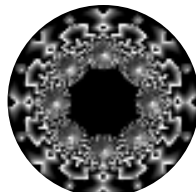
- Camera-ready art: between 6" x 6" and 8.5" x 11," on high quality slick paper.
 - Positive or negative slides
 - Photographs: between 4" x 4" and 8.5" x 11."
 - Adobe Photoshop: 6" x 6" at 400 dpi minimum.
 - Adobe Illustrator: EPS preferred.
 - Macromedia Freehand: EPS preferred.
 - CorelDraw: native file.
- Note: For quicker service, please convert fonts to curves (or outlines/paths).

Files can be sent uncompressed, or compressed as a self extracting archive. Lee, Rosco, or GAM gel colors may be used as color references. Pantone colors are acceptable references provided they are Coated colors. Readily available color choices can be viewed on the HES Color Cross-Reference guide located in High End Systems web site (www.highend.com). Information such as color options, number of colors, image specifications, and scheduling must be obtained prior to order confirmation.

Artwork may be provided on floppy disk, 128 or 230 mb magneto-optical disk, 44, 88 or 200 mb syquest cartridge, 100mb zip disk, or 1 or 2 GB Jaz disk. Consult our website at www.lithopatterns.highend.com for information about FTP transfer information.



Psycho Tunnel
141395



Lucid
141358



Velocity
141075



Psychedelic
141028

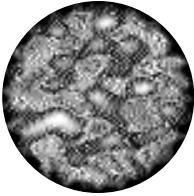


Dense Foliage
141393

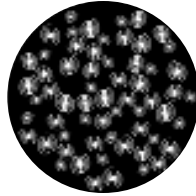


Sandscape
141063





Layers
141167



Spirals
141070



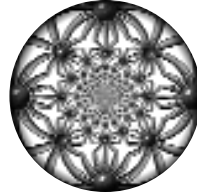
Big Swirl
141249



Tranquility Rock
141022



Building Blocks
141110



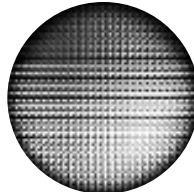
Daisy Chain
141044



Face n Sun
141080



Fluffy Clouds
141010



Spike Wall
141069



Gothic Encryptions
141153



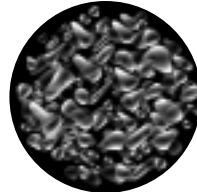
Velvet Fold
141013



Genesis
141261



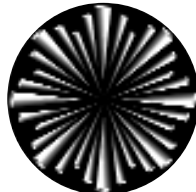
Andromeda
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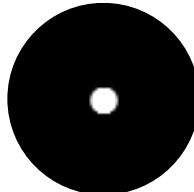
Warp
141101



Valiant
141244



Conoid
141024



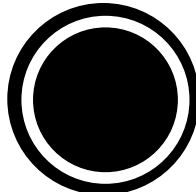
Pinhole
141384



Silcsquare
141104



Paisley 1
141002



Tunnel
141096



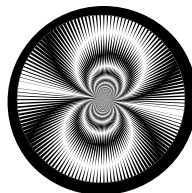
Shatter
141107



Structure
141102



LithoPatterns®



Turbine Moiré
141396



Reverb
141388



Glittering Stars
141150



Shimmering Stars
141020



Bright Stars
141252



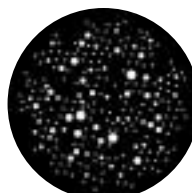
Hollywood Stars
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Eminent
141143



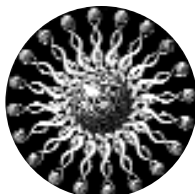
Beveled Star
141021



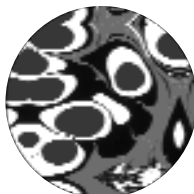
Starry Night
141294



Starburst
141293



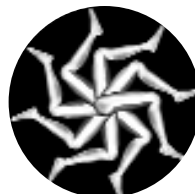
Alien Star
141009



Marbled Tree
141057



City Pulse
141131



Running
141191



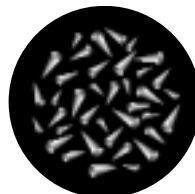
Glass Brick Wall
141050



Dashing
141253



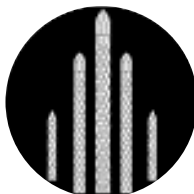
Pickup Sticks
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Cones
141255



Angles
141117



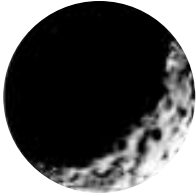
Cathedral Windows
141129



Ball Lantern
141119



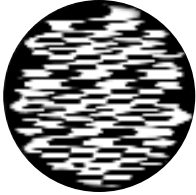
Shadow Blinds
141194



Quarter Moon
141185



Moon
141006



Groovy
141027



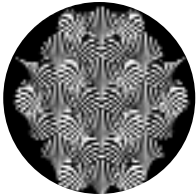
Paisley Spin
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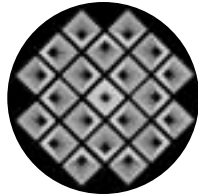
Crystal Star
141015



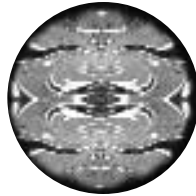
Twisted Nova
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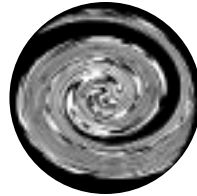
Billowy
141123



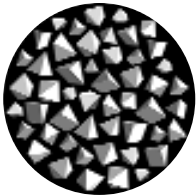
Cubed
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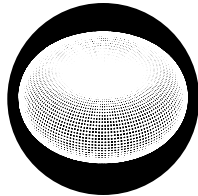
Butterfly
141128



Maralade
141171



Egyptian Space
141025



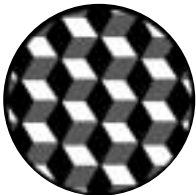
Donut
141004



Network
141014



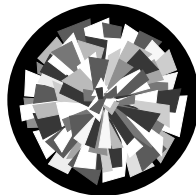
Turmoil
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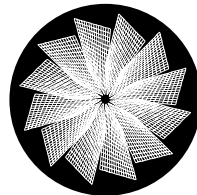
Gradation
141155



Skyscraper
141282



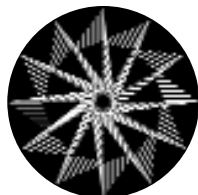
Crystal
141095



Blades
141003



Chrome Star
141035



Trip Wheel
141093



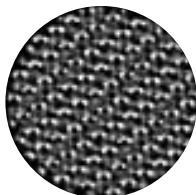
Sway Star
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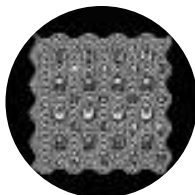
Flag Wheel
141215



LithoPatterns®



Moon Bumps
141173



Figuration
141214



Eyes
141144



Snowflake
141067



Eye-trip
141145



Drifting Portal
141142



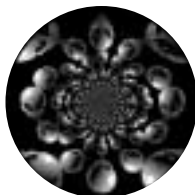
Vortex
141076



Barbed
141033



Alien Head
141114



Invasion
141165



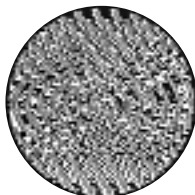
Disconnect
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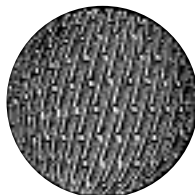
Skull Explosion
141152



Trust
141239



Spindala
141201



Spangles
141068



Halloween Skull
141223



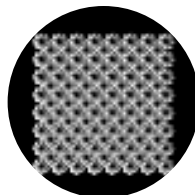
Huge Hand
141159



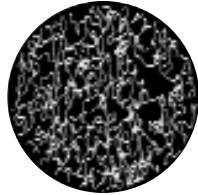
Turning Hands
141240



Sweep
141205



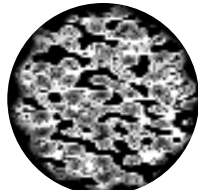
Beveled Spirals
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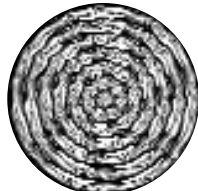
Raving
141186



Pulsar X-rays
141183



Cycle
141137



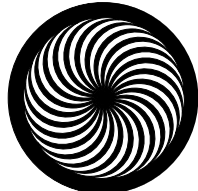
Pool
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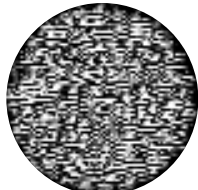
Halo-stars
141052



Fracture
141269



Pinwheel
141094



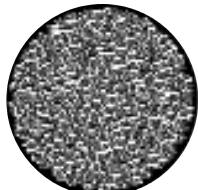
Cyclonic
141138



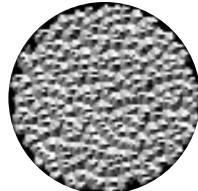
Tons of Blocks
141235



Abduction
141112



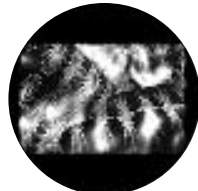
Terrains
141232



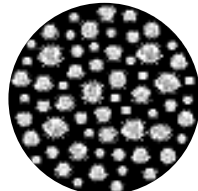
Core
141039



Lava Flow
141049



Flux
141081



Proto
141181



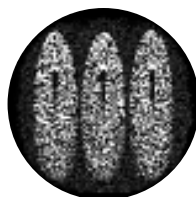
RoundAbout/TLoop
141272

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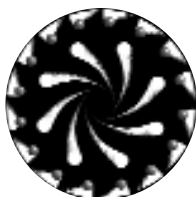
LithoPatterns®



Deceptive Lighting
141045



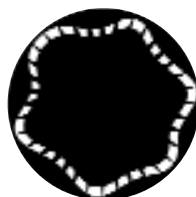
Industrial Fan
141053



Comet Wings
141037



Wavy Tunnel
141209



Broken Wavy Ring
141127



Three Broken Rings
141090



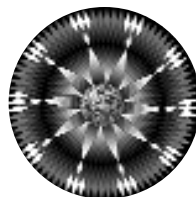
Comets
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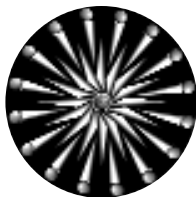
Reflections
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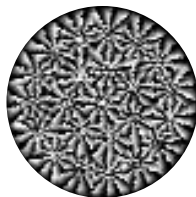
Sharp Burst
141031



Moire Flower
141059



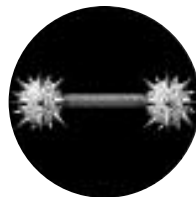
Neo-wheel
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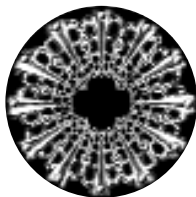
Lucent Vibrations
141170



Ninja Eye
141230



Pummel
141184



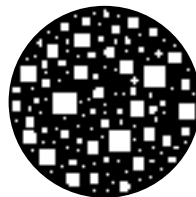
Gothic Vortex
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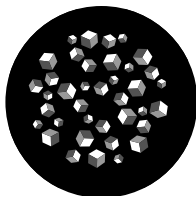
Crux
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Diskman
141140



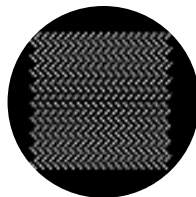
Framed
141227



3D Blocks
141098



Rock
141026



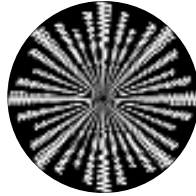
Tread
141238



Rabbit
141263



Twisters
141242



Lapse
141166



Torsion
141091



Mind's Eye
141058



Illumine
141161



Cosmic Stairway
141040



Pennom
141179



Ring of Lightning
141379



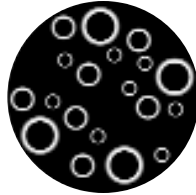
Rattle Wheel
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Spiral Sun
141071



Gale Winds
141146



Random Rings
141061



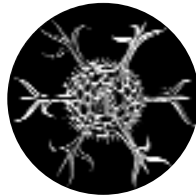
Wavy Rings
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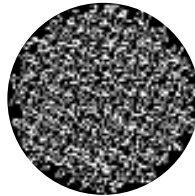
Fractal Burst
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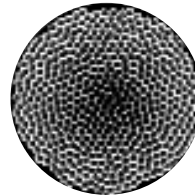
Textured Frames
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Creatural
141042



Scribble
141192



Hive
141158



Safari
141266



Pig
143007



Eagle
141264



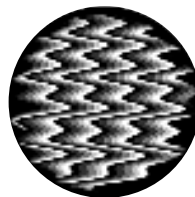
Cat1
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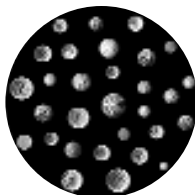
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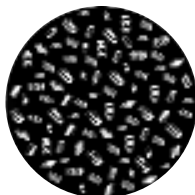
Triad One
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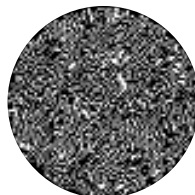
Convolution
141038



Planetoids
141180



Severance
141193



Pandemonium
141176



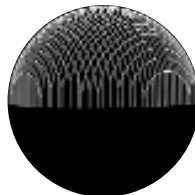
Strategem
141203



Block World
141124



Steppers
141202



Wire Vault
141213



Amplitudes
141116



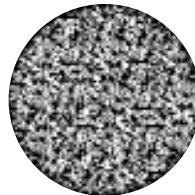
Mirror Morph
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Blocks
141034



Icy Stones
141160



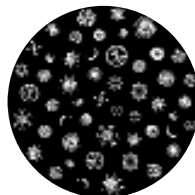
Alien Web
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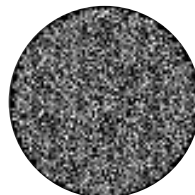
Sheared
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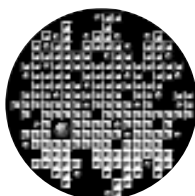
Aged Brick Wall
141113



Interface
141163



In Sync
141162



Arcade
141118



Space Steppers
141251



Globe
141308



Peace Together
141178



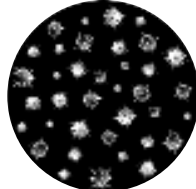
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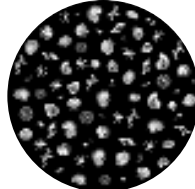
Wavy Spikes
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Wild Planet
141079



Space Mines
141199



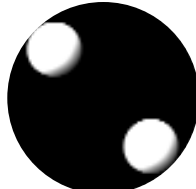
Sea Wall
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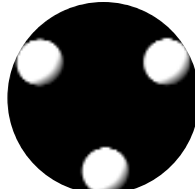
Wavy
141077



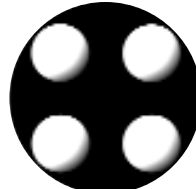
Forces
141225



Two Orbs
141085



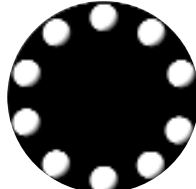
Three Orbs
141234



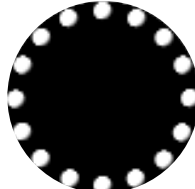
Four Orbs
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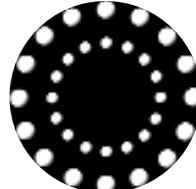
Six Orbs
141065



Ten Orbs
141231



Sixteen Orbs
141066



Two Orb Rings
141084



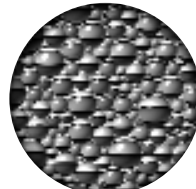
Lead Crystals
141054



Stinky
141198



Chrome Spheres
141130



Simmer
141196



Gear Man
141048



Phantom
141218



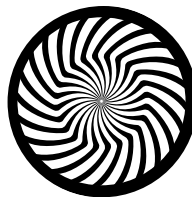
Dimples
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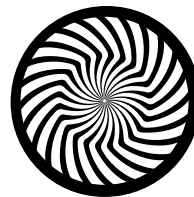
Egypt
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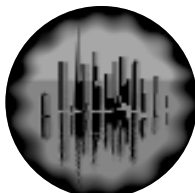
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Fin Fan 1
141397



Fin Fan 2
141398



Neo-city
141011



Cloud String
141348



Cloud Drift
141349



Waterfall
141347



Coma3
141267



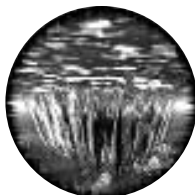
Face Off
141268



Squiggle
141271



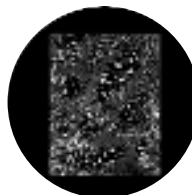
Uniquity
141257



Crystal Spikescape
141043



Stone Wall
141350



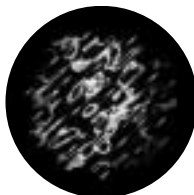
Pine Cones
141351



Winter
141273



Blizzard
141353



Puddle
141354



Rain
141355



Eclipse
141356



Golden Gates
141151



Spiky-wavescape
141200



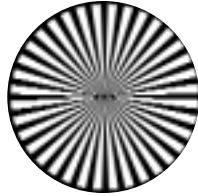
Euphoriscape
141047



The Guards Hall
141088



Moiré Spin
141465



Moiré Straight
141099



Moiré Swirl
141100



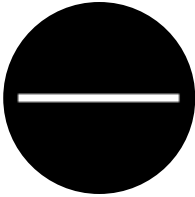
Moiré Warble
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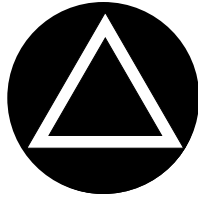
Paragon
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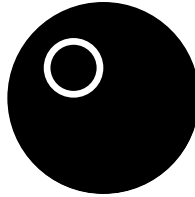
Wing Rock
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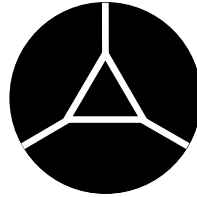
Slot
141224



Triangle
141008



Circle 1
141246



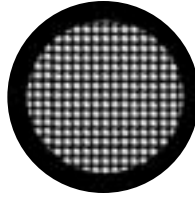
Trism
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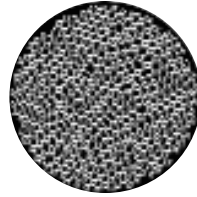
Print
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Streaks
141352



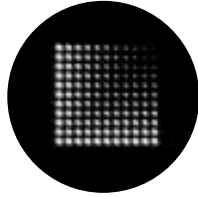
Teather Wall
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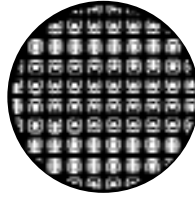
Bevel Grid
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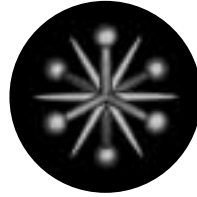
Paper Stack
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Fade
141248



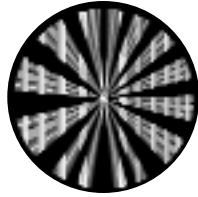
Gems
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Jacks
141111



Quad Tear
141311



Flare
141259



Drift
141141



Generation
141148



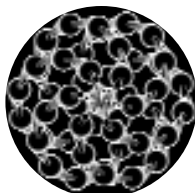
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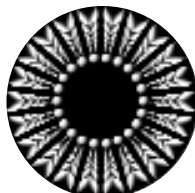
Directional
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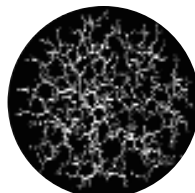
Rock Star
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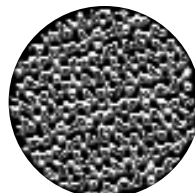
Gyration
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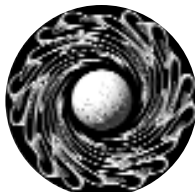
Native Arrows
141228



Plasma Storm
141060



Craters
141133



Magnetic Fields
141056



Starlet
141072



Cosmicscape
141041



Tribal
141241



Liberty Bell
141286



Hats Off
141285



Flowing US Flag
141083



Flag and staff
141217



Party O
141299



Party
141260



Happy B-Day
141296



Hearts
141298



Happy Balloons
141297



ChingChing
141292



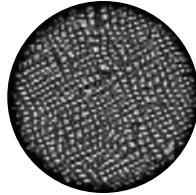
Ring of Fire
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Xiting
141283



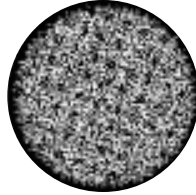
Psycho
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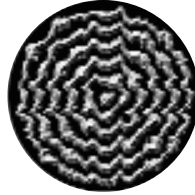
Glassy Mesh
141149



Tri-Wing
141109



Shadows
141064



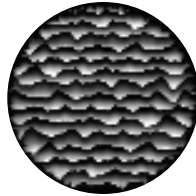
Rock-rings
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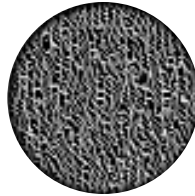
Transfix
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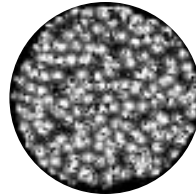
Distant Terrains
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Ridges
141187



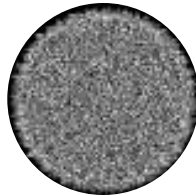
Interlace
141164



Wave Form
141207



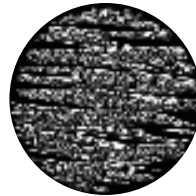
Fireworks
141082



Grainy
141156



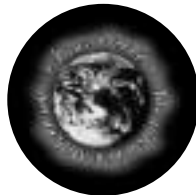
Winter Park
141212



Ligneous
141169



Year of the Dragon
141337



Millennium Map
141338



PCB 2000
141339



Y2K Bugs
141340



2000
141341



Countdown
141342



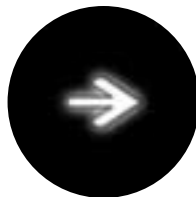
Happy 2000 Year
141343



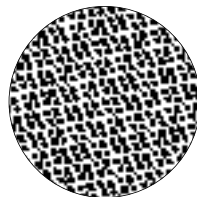
Happy New Millennium
141344



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This Way
141357



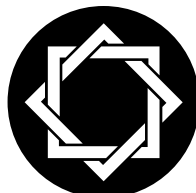
Bar Bells
141258



Sing
141313



Instars
141270



Interlock
141309



Cross
141312



Ship
141320



Airplane1
141314



Loco
141319



Mardi Gras
141287



Santa
141288



Happy Holidays
141345



Christmas Tree
141290



Good St. Nick
141346



Jack-o-lanterns
141220



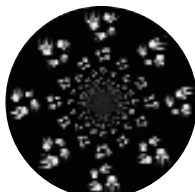
Witch
141016



Bone Mates
141222



Overend
141304



Barbaric
141120



Rite
141188



Lament
141219



3 Candles
141221



Ying Yang
141243



Bolt
141307

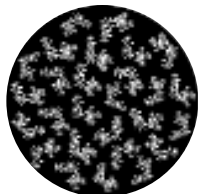
LithoPatterns®



Sunflower
141074



Cyber Daisy
141136



Break-up Flowers
141126



Wall of Flowers
141206



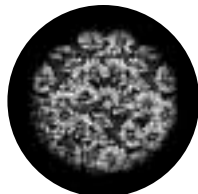
Happy Dais
141157



Outbloom
141174



Bouquet
141125



Flower Field
141262



Leaves
141055



Trees
141256



Maple Leafs
141323



Bamboo
141321



Ball & Hoop
141300



Ref
141305



Derby
141302



Moto
141303



Pillars L
141280



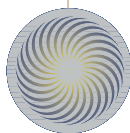
Pillar Set
141279



Pillars R
141281



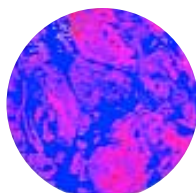
Torches
141236



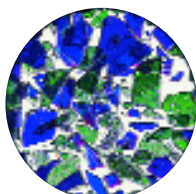
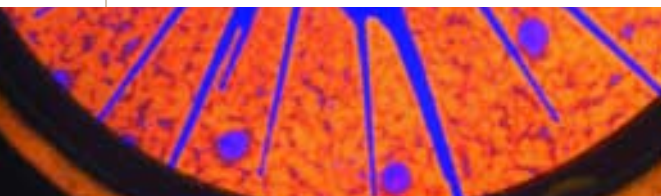
Special Effects™



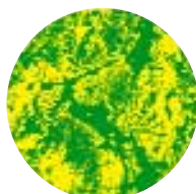
Recreate stained glass and classic 60's imagery or produce dynamic new scenes with Special Effects glass. Special Effects can render intense looks, or may be used for more subtle lighting.



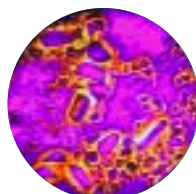
Psy-dye,™ indigo
142008



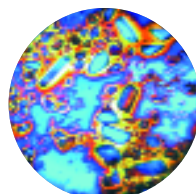
Dichro Collage, blue/green
144003



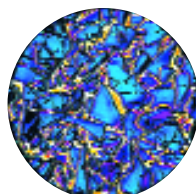
Psy-dye,™ green
142009



Fusion Fire, mag., static
144024



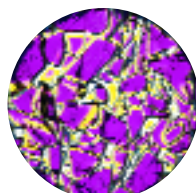
Fusion Fire, cyan, small
144020



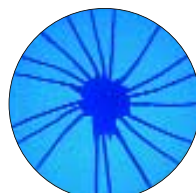
Fusion Fire, blue
144006



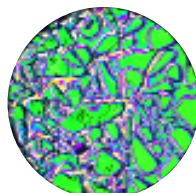
Psy-spin,™ red
142010



Fusion Fire, magenta
144005



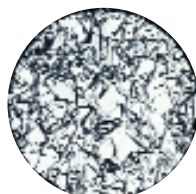
Psy-spin,™ blue
142011



Fusion Fire, aqua
144008



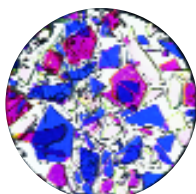
Psy-spin,™ indigo
142012



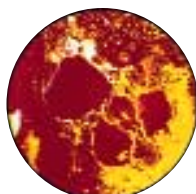
Fusion Fire, clear
144004



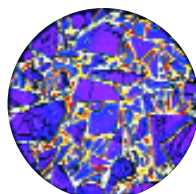
Psy-spin,™ green
142013



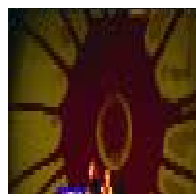
Dichro Collage, blue/red
144002



Psy-dye,™ red
142006

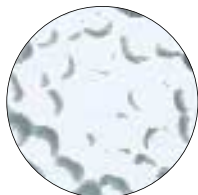


Fusion Fire, indigo
144007





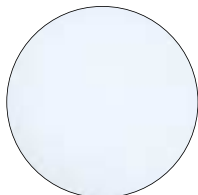
Maze
144011



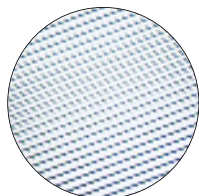
Hammered
144021



Double Quill
144012



Frost
144023



Lenticular
144001



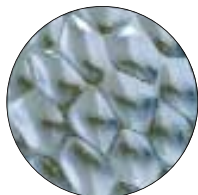
Stony
144015



Slow
144022



Radium Rotate
144025



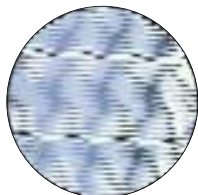
Plexus
144009



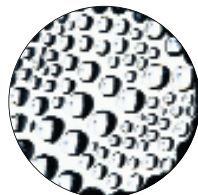
Rumble
144018



Cluster
144010



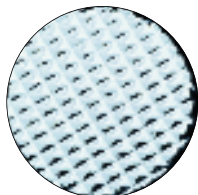
Pulse
144016



Droplet
144019



Quill
144013

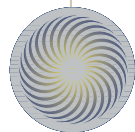


Grid
144017



Bamboo
144014

Art Glass™



Art Glass gives a rich, 3-dimensional, sculpted appearance to the light, adding instant depth and interest to scenery and backgrounds.



New Additions



Icy Flake
141464



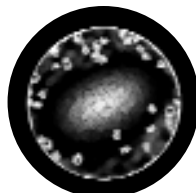
Snowfairy
141461



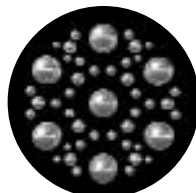
Alien Hither
141386



Diaphragm Wheel
141387



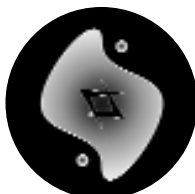
Pugs Aura
141389



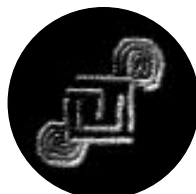
Chrome Spheres 2
141391



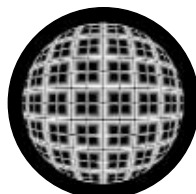
Polymeoba
141394



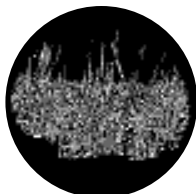
Ninja Shield
141385



Intestines
141390



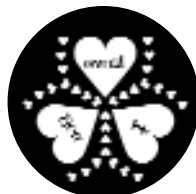
Grid World
141382



Grass
141377



Kiss
141375



Love
141376



Cupid
141374



Ornaments
141460



Ornaments with Bows
141455



Five Stockings
141458



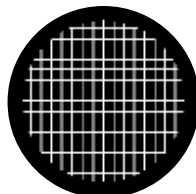
Snowman Broom
141462



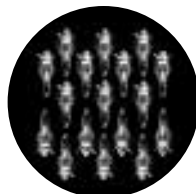
Everglades
141378



9 Bars
141380



Building Grid
141381



Gargoyles
141383



US Flag
141392



Flag. USA
143008

New Additions



Easter Cross
141371



He Is Risen
141372



Hoppy Easter
141369



Chick N' Egg
141370



Four Leaf Clover
141363



Four Leaf Too
141364



Leprechaun
141360



Rainbow Gold
141362



St. Paddy's Hat
141366



St. Patrick's Day Trinity
141365



St. Pat's Cheers
141367



St. Pats w/Clover
141368



Lucky
141361



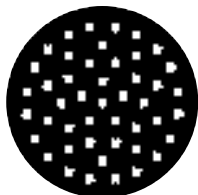
Trinity
141373



Bright Hanukkah
141457



Happy Chanukah
141454



Celestial
141463



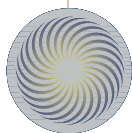
Star Symbol
141459



Hanukkah
141456



Dreidel
141453



Optical Design Accessories

- LITHOPATTERNS®
- SPECIAL EFFECTS™
- ART GLASS™



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